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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/730,465	12/08/2003	Hiroyuki Araki	P/1596-71	2933
	7590 03/16/2007 C FABER GERB & SOFFEN			INER
1180 AVENUE	OF THE AMERICAS		KORNAKOV, MIKHAIL	
NEW YORK, NY 100368403			ART UNIT	PAPER NUMBER
			1746	
SHORTENED STATUTOR	Y PERIOD OF RESPONSE	MAIL DATE	DELIVERY MODE	
3 MOI	NTHS	03/16/2007	PAPER	

Please find below and/or attached an Office communication concerning this application or proceeding.

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

		tr				
	Application No.	Applicant(s)				
	10/730,465	ARAKI ET AL.				
Office Action Summary	Examiner	Art Unit				
	Michael Kornakov	1746				
The MAILING DATE of this communication Period for Reply	appears on the cover sheet wi	h the correspondence address				
A SHORTENED STATUTORY PERIOD FOR RE WHICHEVER IS LONGER, FROM THE MAILING - Extensions of time may be available under the provisions of 37 CFF after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory per - Failure to reply within the set or extended period for reply will, by state Any reply received by the Office later than three months after the mearned patent term adjustment. See 37 CFR 1.704(b).	DATE OF THIS COMMUNIC R 1.136(a). In no event, however, may a re- riod will apply and will expire SIX (6) MON atute, cause the application to become AB	CATION. The ply be timely filed THS from the mailing date of this communication. ANDONED (35 U.S.C. § 133).	•			
Status						
1) Responsive to communication(s) filed on 2	<u> 1 December 2006</u> .	•				
2a) ☐ This action is FINAL . 2b) ☑ T	☐ This action is FINAL . 2b) ☑ This action is non-final.					
3) Since this application is in condition for allo						
closed in accordance with the practice unde	er <i>Ex parte Quayle</i> , 1935 C.D	. 11, 453 O.G. 213.				
Disposition of Claims						
4) Claim(s) 1-16 is/are pending in the applicat	ion.					
4a) Of the above claim(s) <u>5-7 and 9-16</u> is/ar	e withdrawn from consideration	on.				
5) Claim(s) is/are allowed.						
6)⊠ Claim(s) <u>1-4 and 8</u> is/are rejected.						
7) Claim(s) is/are objected to.	d/or election requirement					
8) Claim(s) are subject to restriction an	d/or election requirement.					
Application Papers						
9) ☐ The specification is objected to by the Exam	niner.	•				
10)⊠ The drawing(s) filed on <u>08 December 2003</u>						
Applicant may not request that any objection to						
Replacement drawing sheet(s) including the cor 11) The oath or declaration is objected to by the						
Priority under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for fore	ian priority under 35 H.S.C. &	119(a)-(d) or (f)				
a) ☐ All b) ☐ Some * c) ☐ None of:	agn priority under 55 6.6.6. §	113(a)-(d) 51 (l).				
1. Certified copies of the priority docum	ents have been received.					
2. Certified copies of the priority docum		oplication No				
3. Copies of the certified copies of the p	priority documents have been	received in this National Stage				
application from the International Bur	reau (PCT Rule 17.2(a)).					
* See the attached detailed Office action for a	list of the certified copies not	received.				
·						
Attachment(s)		•				
1) Notice of References Cited (PTO-892)		ummary (PTO-413))/Mail Date				
 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08) 		formal Patent Application				
Paper No(s)/Mail Date 12/08/03.	6)	<u> -</u> ·				

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DETAILED ACTION

Election/Restrictions

- 1. Applicant's election without traverse of Group I, claims 1-8, and the specie of arranging the flow control means as per claim 2 in the reply filed on 12/21/2006 is acknowledged. Claims 5-7 and 9-16 are withdrawn from further consideration pursuant to 37 CFR 1.142(b) as being drawn to a nonelected inventions, there being no allowable generic or linking claim.
- 2. Claims 1-4, 8 are currently examined on the merits.

Claim Rejections - 35 USC § 102

3. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 4. Claims 1-4, 8 are rejected under 35 U.S.C. 102(b) as being anticipated by Fujikawa et al (U.S. 5,520,744).

Fujikawa teaches a substrate treating apparatus comprising a rinsing bath 12; an overflow receptacle unit 14; a supply inlet 18, provided at the bottom of rinsing bath, for supplying deionized water into the bath through a bottom thereof; an overflow portion 20, provided at the top of the rinsing bath. A supply source of deionized water is connected to a supply inlet 18 through the flow lines 42, 44, 46 for supplying deionized

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water into the rinsing bath. Flow line 42 is provided with open/close valve 48 and ball valve 52 (col. 3, lines 5-10, 42-48; Fig. 1, 6).

With regard to the limitation of claim 1, which is concerned with "flow control means for varying with time a feeding flow rate of the cleaning liquid from said cleaning liquid supply means during the cleaning treatment of the substrate...", Fujikawa teaches a number of valves on the flow line 42, which are fully capable of varying with time a feeding flow rate of water from the water supply source.

With regard to claim 2 the valves of Fujikawa are used to supply or suspend the supply of deionized water into the rinsing bath. With regard to claim 8, the apparatus of Fujikawa is fully capable of storing water in the rinsing bath before immersing the substrate. With regard to claims 3 and 4, Applicants' attention is drawn to the fact that these claims do not recite any additional structural limitations, but are concerned with specific processing tasks/parameters. It is noted that the apparatus of Fujikawa is fully capable of establishing the recited parameters. It is also noted that apparatus claims must be structurally distinguishable from the prior art in terms of structure not function, consult *In re* Danley, 120 USPQ 528, 531 (CCPA 1959); Hewlett-Packard Co. V. Baush and Lomb, Inc., 15 USPQ2nd 1525, 1528 (Fed. Cir. 1990).

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Michael Kornakov whose telephone number is (571) 272-1303. The examiner can normally be reached on 9:00am - 5:30pm.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Michael Barr can be reached on (571) 272-1414. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

M. ROENA KOU

Michael Kornakov Primary Examiner Art Unit 1746

03/13/2007